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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,193	12/31/2003	Everett B. Lee	42.P18035	2545	
8791 DIAKEIV SC	7590 05/10/2007	EXAMINER			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			ERDEM, FAZLI		
			ART UNIT	PAPER NUMBER	_
LOS ANGELE	3, CA 90023-1030	2826			
•					_
		•	MAIL DATE	DELIVERY MODE	
			05/10/2007	PAPÉR	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/751,193	LEE, EVERETT B.				
		Examiner	Art Unit				
		Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on 19 Ap	<u>oril 2007</u> .					
2a)☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)🛛	4) Claim(s) 12-17 and 23-36 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · · —	5) Claim(s) is/are allowed.						
	Claim(s) 12-17 and 23-36 is/are rejected.						
· —	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	election requirement					
ــارە.	are subject to restriction and/or	ciccion requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examiner	r.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•		anniner. Note the attached Office	Action of form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
<i>/</i> -	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	t(s) e of References Cited (PTO-892)	, Λ Π (-4	(DTO 442)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat	te				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5)	itent Application				

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DETAILED ACTION

Response to Arguments and Amendments

- 1. Applicant's arguments and amendments, filed 4/19/2007, with respect to the rejection(s) of claim(s) 12-17 and objections to the claims 23-26 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Wu.
- 2. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "one-dimensional" in claim12 is used by the claim to mean "length much greater than the width", while the accepted meaning is "relating to a line." The term is sufficiently redefined in the specification on page 6 for the instant case.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 12-17 and 23-36 rejected under 35 U.S.C. 102(e) as being anticipated by Wu (6,765,258).

Regarding Claim 12, Wu discloses a stack-gate flash memory cell structure and its contactless flash memory arrays where in Figs. 3I(B), 4, and 5, it is disclosed a flash memory cell comprising: a plurality of gate stacks 314(b) formed on a substrate 300, and a plurality of active regions 309b formed in the substrate, wherein each of the plurality of the gate stacks has a gate stack length and a gate stack width; an interlayer dielectric (ILD) 317a deposited over the gate stacks and the active regions; a one-dimensional slot patterned across active regions 309b in Fig. 4 in the ILD, wherein the one dimensional slot is to provide access to the plurality of active regions; and a bit line CSBL0- CSBL1 formed in the single slot, wherein the bit line is to contact the plurality of active regions through slot, wherein the one-dimensional slot has a length along the length of the bit line that is substantially larger than a width that is the gate stack width. 13. (Original)

Regarding Claim 13, the flash memory cell of claim 12, wherein the bit line 309b/310 comprises a tungsten plug as disclosed in column 6 lines 8-25

Regarding Claim 14, wherein the flash memory cell is a NOR memory cell.

Regarding Claim 15, plurality of nitride spacers 308 are adjacent to the gate stacks.

Regarding Claim 16, in Fig. 3I(b), control gates are 314b and floating gates are 302c

Regarding Claim 17, in Fig. 4, the word lines are labeled WL0 and they care in contact with the control gate.

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Regarding Claim 23, Wu discloses a flash memory device where in Figs. 3I(b) and 4 it is disclosed a plurality of gate stacks 314(b) formed on a substrate, wherein an etch stop layer 313 in Fig. 3I(a) a forms a top surface of each gate stack within the plurality, a plurality of active regions 309b formed in the substrate; an interlayer dielectric (ILD) 317a deposited on the plurality of gate stacks and on the plurality of active regions; a one-dimensional slot patterned across active regions 309b in Fig. 4 patterned in the ILD providing access to the plurality of active regions; and a bit line formed in the slot, the bit line in contact with the top surfaces of the gate stacks and in contact with the plurality of active regions.

Regarding Claim 24, wherein the bit line 309b/310 comprises a tungsten plug as disclosed in column 6 lines 8-25.

Regarding Claim 25, in column 8 lines 26-48, the required silicide layer is disclosed.

Regarding Claim 26, layers 313 in Fig. 3I(a) is a dielectric layer.

Regarding Claim 27, layer 313 is nitride layer.

Regarding Claim 28, layer 315a in Fig. 3I(b) which can be considered as an etch stop layer is a silicide layer.

Regarding Claim 29, a nitride spacer 308a is adjacent to each of the plurality of gate stacks.

Regarding Claim 30, in Figs 3I(a), 3I(b) and 4, Wu disclose a nonvolatile memory device comprising: a plurality of gate stacks 314b formed on a substrate 300, wherein each gate stack within the plurality comprises an etch stop layer 313 and 315a; a plurality of active regions formed 309b in the substrate; an interlayer dielectric (ILD) 317a on the plurality of active regions and on and adjacent to each gate stack of the plurality of gate stacks and; bit line

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BL0/309b (in Fig. 4) formed in a slot, the bit line in contact with the etch stop layer of the plurality of gate stacks and in contact with the plurality of active regions.

Regarding Claim 31, wherein the bit line 309b/310 comprises a tungsten plug as disclosed in column 6 lines 8-25.

Regarding Claim 32, in column 8 lines 26-48, the required silicide layer is disclosed.

Regarding Claim 33, etch stop layer 313 is a dielectric layer.

Regarding Claim 34, etch stop layer 313 is a nitride dielectric layer.

Regarding Claim 35, etch stop layer 315a is a silicide layer.

Regarding Claim 36, spacers 308a are located adjacent to each of the plurality of gate stacks.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FE May 3, 2007

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